

ABSTRACT

An electrolyte for a photovoltaic device including  
5 (i) a layered clay mineral and/or an organically modified  
layered clay mineral and (ii) an ionic liquid as well as  
a photovoltaic device including a photoelectrode  
including a transparent conducting layer and a metal  
oxide semiconductor mesoporous film using, as an  
electrolyte layer, the same, a counter electrode facing  
10 this photoelectrode and an electrolyte layer arranged  
between the photoelectrode and the counter electrode as  
well as a dye-sensitized solar cell composed of a  
) photovoltaic device and a photosensitizer carried on a  
metal oxide semiconductor mesoporous film of the  
15 photovoltaic device, wherein the conductive substrate is  
obtained by coating, on a conductive substrate, a  
conductive polyaniline dispersion stably dispersed in an  
organic solvent including (A) a polyaniline obtained by  
20 polymerization of aniline or an aniline derivative, (B) a  
sulfonic acid compound and/or (C) an organic polymer  
having a protonic acid group, (D) a molecular weight  
modifier, and (E) an organic solvent capable of  
dissolving the sulfonic acid compound (B), the organic  
) 25 polymer having a protonic acid group (C), and the  
molecular weight modifier (D).